



# Marine Safety Center

## BWMS Type Approval Status



| <i>Approved</i> |                                |                  |                 |                                 |                                |                     |
|-----------------|--------------------------------|------------------|-----------------|---------------------------------|--------------------------------|---------------------|
| Date Received   | Manufacturer (Country)         | Model            | Independent Lab | System Type                     | Approved Range                 | Certificate Issued* |
| 20 Sep 2016     | Optimarin (Norway)             | OBS/OBS Ex       | DNV GL          | Filtration + UV                 | 167 – 3000 m <sup>3</sup> /h   | 03 Nov 2017         |
| 21 Sep 2016     | Alfa Laval (Sweden)            | Pure Ballast 3   | DNV GL          | Filtration + UV                 | 150 – 3000 m <sup>3</sup> /h   | 21 Dec 2017         |
| 23 Sep 2016     | TeamTec OceanSaver AS (Norway) | OceanSaver MK II | DNV GL          | Filtration + Electrodialysis    | 200 – 7200 m <sup>3</sup> /h   | 18 Oct 2017         |
| 24 Jan 2017     | Sunrui (China)                 | BalClor          | DNV GL          | Filtration + Electrolysis       | 50 – 8500 m <sup>3</sup> /h    | 05 Jan 2018         |
| 31 Mar 2017     | Ecochlor, Inc. (USA)           | Ecochlor BWTS    | DNV GL          | Filtration + Chemical Injection | 500 – 16,200 m <sup>3</sup> /h | 10 Aug 2017         |
| 02 May 2017     | Erma First (Greece)            | Erma First FIT   | Lloyds Register | Filtration + Electrolysis       | 100 – 3,740 m <sup>3</sup> /h  | 18 Oct 2017         |

| <i>Under Review</i> |   |                      |                 |                           |                                |                    |
|---------------------|---|----------------------|-----------------|---------------------------|--------------------------------|--------------------|
| Date Received       | Manufacturer (Country)                                | Model                | Independent Lab | System Type               | Approved Range                 | Certificate Issued |
| 28 Sep 2017         | Samsung Heavy Industries Co., Ltd (Republic of Korea) | Purimar BWMS         | Korean Register | Filtration + Electrolysis | 250 – 10,000 m <sup>3</sup> /h | Pending            |
| 31 Oct 2017         | Techcross, Inc. (Republic of Korea)                   | Electro-Cleen System | Korean Register | Electrolysis              | 150 – 12,000 m <sup>3</sup> /h | Pending            |

\*Complete copies of the Coast Guard Type Approval Certificates can be found on the Coast Guard HOMEPORt website under the “Environmental” Missions Tab or by visiting the USCG Approved Equipment List at: <http://cgmix.uscg.mil/Equipment/Default.aspx>